

ABSTRACT

An improved heat sink element coupling structure comprised of a minimum of one or more folded appendages that are formed by bending along the upper or lower lateral edges, the middle, or other suitable position of a single heat sink element or along the two sides of one lateral edge or middle position of a single heat sink element; an opening disposed at the confluence of the folded appendage and the single heat sink element plate that penetrates the folded appendage to form a perforated construct; and a linking member that extends outward from the folded appendage and, furthermore, is positioned at the distal extremity of the single heat sink element plate. The features of the present invention include the following innovations. The linking member also has two lock tabs along its two sides that extend from the two sides at the leading extremity of the linking member. During interconnection, the lock tabs along the two sides of the linking member on single heat sink elements are articulated into an O shape and engaged into the opening of another immediately adjacent single heat sink element. Furthermore, the linking member and the two lock tabs at its two sides are formed into a horizontal S shape or an inverted horizontal S-shaped arrangement such that they are crimped onto the other single heat sink element plate and also firmly secured against the two lateral edges of the opening to prevent unintentional dislodging.